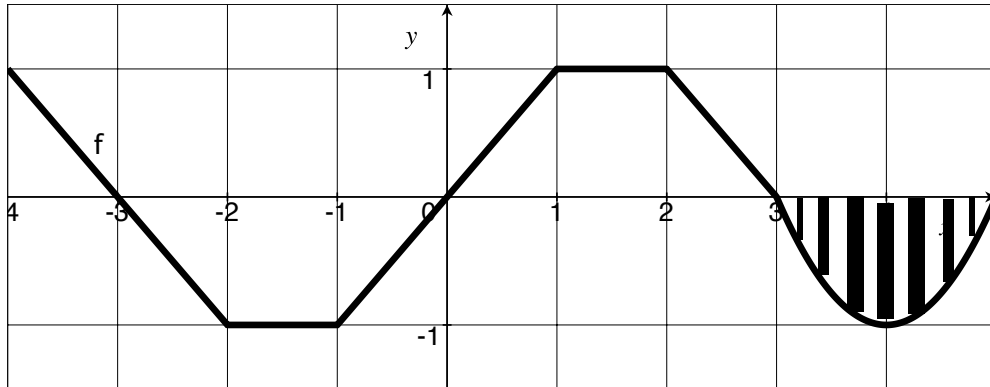


# Quiz 7

## TQS 211

Show *all* your work (algebraically or geometrically) for each and simplify. No credit is given without supporting work.

1. (§5.3 #21) The figure below is the graph of  $f$ .



- (a) [2] Find  $\int_{-3}^1 f(x) dx$ . (No estimations.)

- (b) [2] If the area shaded in the graph above (yes, that is shading) is  $A$ , estimate

$$\int_{-3}^4 f(x) dx$$

2. (§5.5 #3) [2] Find  $\int_0^{50} -q + 56 \, dq$

3. (§7.3 #23) [4] Find  $\int_0^1 2te^{-t^2} \, dt$ .